1 ABSTRACT

2	A back-up detecting device with a distance reset capability has a
3	controller with an intensity analysis program and a distance reset function.
4	When an ultrasonic transceiver is installed underneath a vehicle chassis forward
5	of the rear end, a distance correction called a distance pad is measured,
6	calculated and stored in memory by the distance reset function. The distance
7	pad is the distance between the ultrasonic detector and the rear end of the
8	vehicle. When the distance reset capability is used to determine a distance pad
9	for each ultrasonic transceiver, the back-up detecting device presents accurate
10	distances to objects without regard to the structure of the vehicle body without
11	having to alter system hardware or software. Thus the back-up detecting device
12	is suitable for large vehicles of varied shapes and sizes.